



# **SPECIALTIES**

*for* **EVERY TYPE of BUILDING**

# **Sargent Building Specialties Co.** INC.

**16 WARREN STREET, NEW YORK, N.Y.**



## FOREWORD

In this catalog we have endeavored to present our complete line in concise form. When more complete information on specific items is required special catalogs will be gladly furnished on request.

Since our last edition, increased business has necessitated doubling our warehousing facilities. To our many friends, whose co-operation has made this possible, we wish to extend our appreciation.

True value and the manner in which we serve our patrons is as important in our conception of service as the quality of our products.

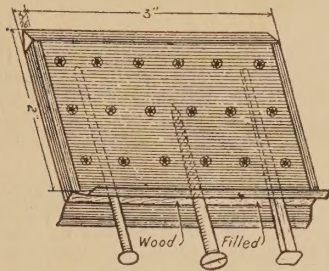
Current quotations cheerfully made upon application. If desired, orders may be placed with the assurance that invoice will be rendered at prevailing prices.

CATALOG No. 38



**Griptite**  
TRADE MARK

## Metal-Wood Wall Plugs



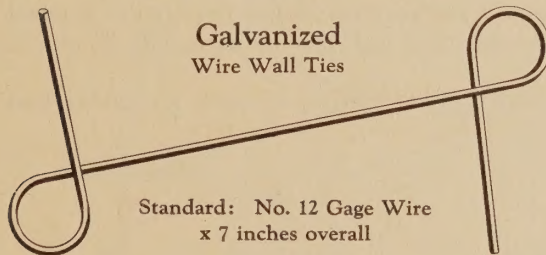
Galvanized

Used in 176 New York territory prominent buildings in twelve months.

The only Wall Plug made in which can be used either cut nails or wood screws.

Wood filler is thoroughly seasoned, and coated with waterproof preservative paint. The nail never lets go.

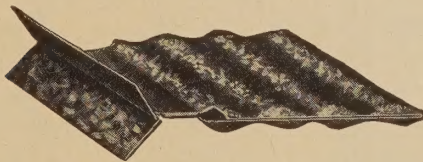
Packed in boxes of 500 Plugs each. Shipping weight per thousand, 110 pounds.



Galvanized  
Wire Wall Ties

Standard: No. 12 Gage Wire  
x 7 inches overall

## Galvanized Metal Wall Plugs

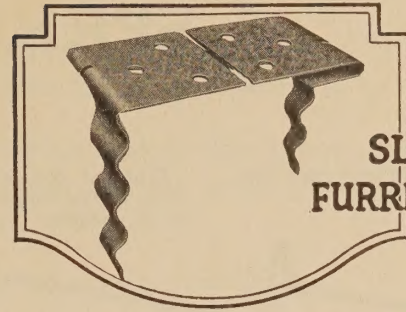


Deep corrugation hold the plug immovable. Sides are closed so no mortar can enter.

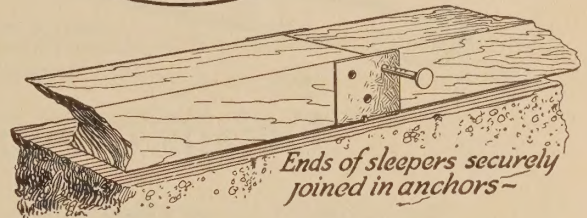
Nailing to mortar joints gives only temporary hold. Wooden blocks absorb moisture and swell; when wall has set, they dry out and shrink, losing their hold.

Trim or furring nailed to these plugs has never been known to loosen. Approved and used on U. S. Government work, also New York Public Schools.

## Dayton Sure Grip

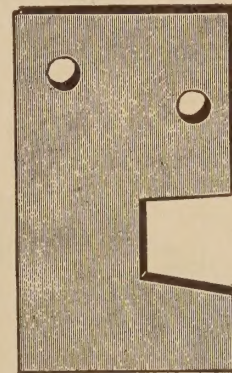


SLEEPER &  
FURRING ANCHORS



*Ends of sleepers securely  
joined in anchors~*

Made of Armco Iron, in 2-inch, 3-inch and 4-inch sizes. Permits installation of sleepers at less cost. Corrugated legs will not tear away once the concrete has set, and will allow the hauling of heavy loads over the floor without injury to the grip or its anchorage. They may be used with brick or concrete walls, beams, columns or slabs.



Steel Sleeper  
Clips

FOR ANCHORING  
WOOD SLEEPERS  
TO STEEL BEAMS

## Galvanized or Copper Corrugated Wall Ties



The best flat strip tie on the market. The deep corrugations firmly grip the mortar on both sides and make a perfect bond. Size  $\frac{7}{8}$ " x 7".

## Solid Link Sash Chain



Note free space in eyes of links to prevent kinking. Solid links reduce stretching to a minimum.

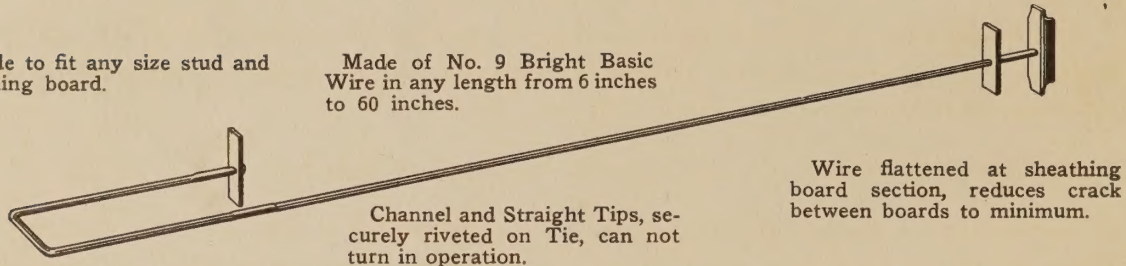
Furnished in Bright Steel, Coppered, Sherardized, or Solid Bronze.



# SURE-GRIP FORM TIES and SPREADERS

Made to fit any size stud and sheathing board.

Made of No. 9 Bright Basic Wire in any length from 6 inches to 60 inches.



Channel and Straight Tips, securely riveted on Tie, can not turn in operation.

Wire flattened at sheathing board section, reduces crack between boards to minimum.

## Details of Sure Grip Plain Tie

Recommended for use where both inner and outer forms can be built at same time.

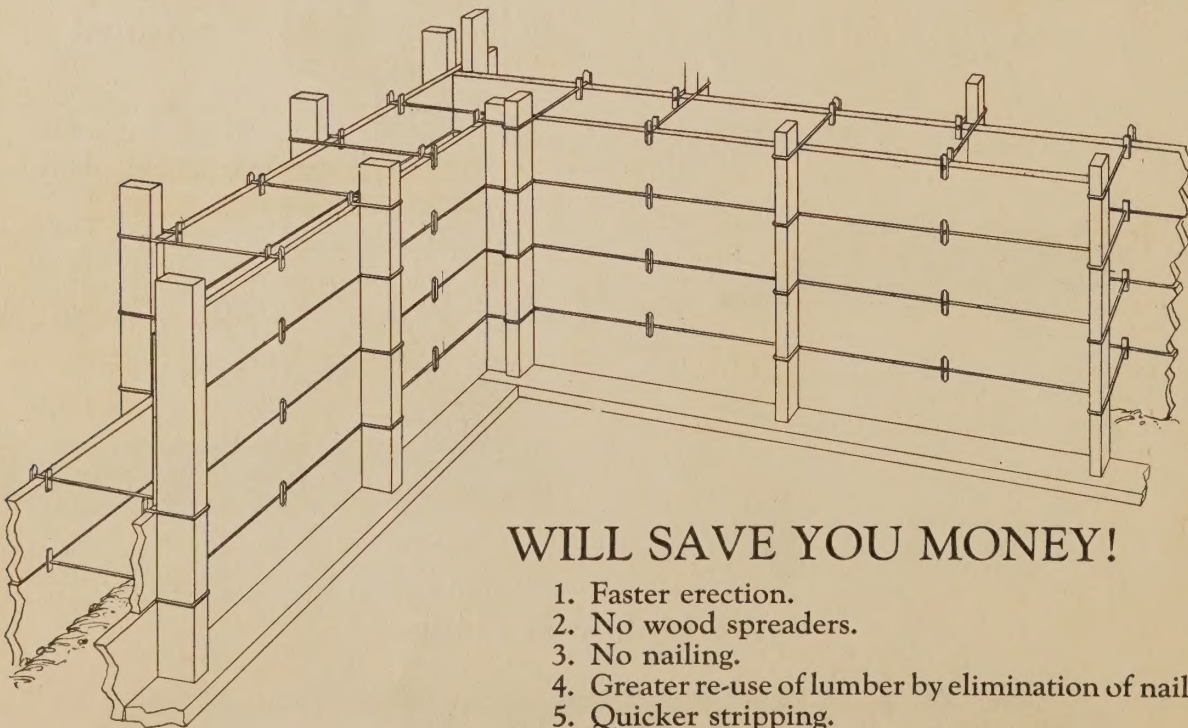
**A**S shown in lower illustration a plate is set (where no plate is used at 1 x 2 or 1 x 3 starting board is suggested) and studs placed every 3 or 4 feet O. C. staggered so that spacing of tie on boards is every 1½ or 2 feet.

Loop end of tie is placed around each stud and over board, while tip end drops on board on opposite side.

Next board is then dropped in position and same operation repeated until height required is reached.

Fastest erection can be done with 1 x 8 box board, although they can also be used with tongue and groove lumber.

It is advisable to nail bottom and top board and any board that is warped to such an extent that it must be held in position.



## WILL SAVE YOU MONEY!

1. Faster erection.
2. No wood spreaders.
3. No nailing.
4. Greater re-use of lumber by elimination of nails.
5. Quicker stripping.

When ordering, give EXACT size of stud and sheathing board to be used.

PRICE, ALL SIZES, \$50.00 PER THOUSAND.



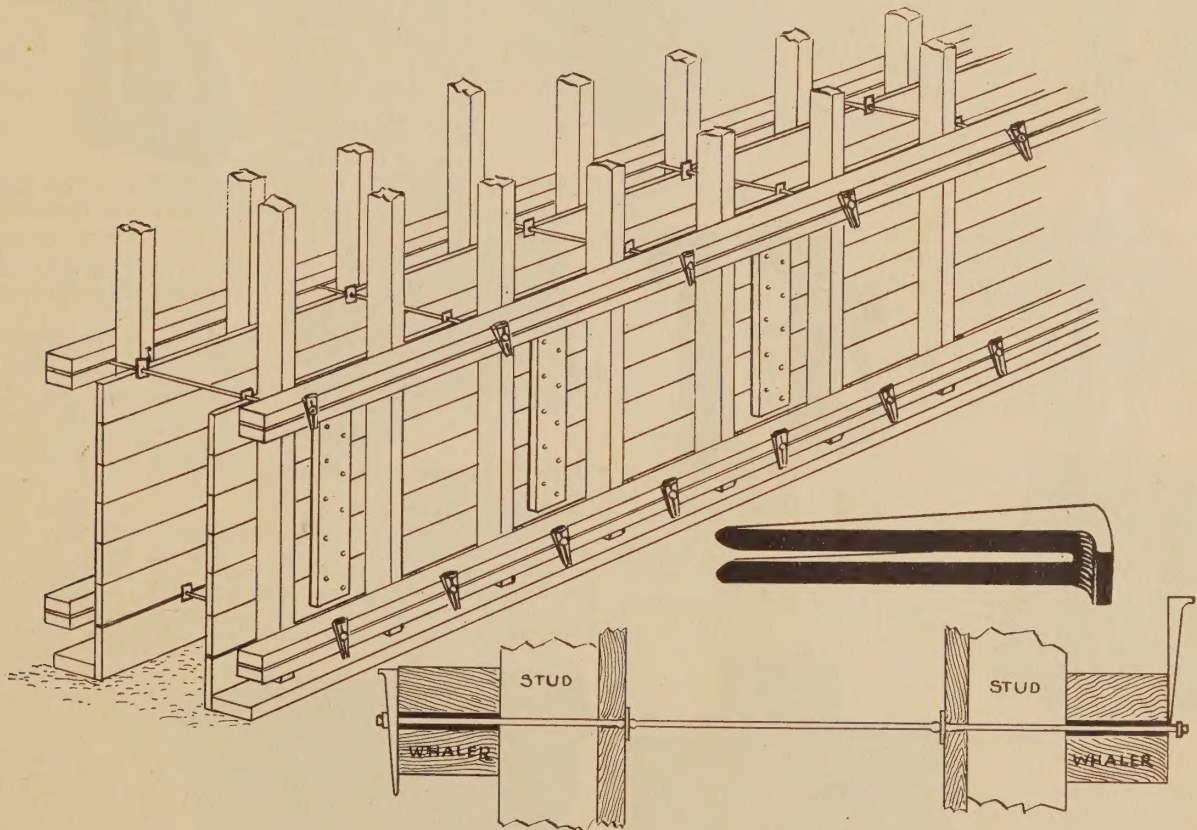
# SURE-GRIP WHALER TIE

Where contractors have panels already made up or where it is impractical to erect both sides of forms at once, the greatest saving can be effected with the Sure-Grip Whaler Tie.

The simple operation of driving the wedge in place securely ties the forms. No wood spreaders are required. After pouring, another blow of the hammer and the wedge is removed. Both erection and stripping costs are cut to a minimum with the use of this tie.

The Sure-Grip Whaler Tie can be pulled, leaving no wire in wall.

Tie is made of special high-carbon wire. In tests conducted at Pratt Institute, Brooklyn, N. Y., it developed an ultimate breaking strength of 4575 lbs. Allowing a margin of safety, we recommend spacing so that load will not exceed 3000 lbs. per tie. Wedge is of malleable iron, unbreakable.



Showing Method of Erection with Whaler Tie

## PRICE LIST

Ties for wall 6 to 12 in. . . . .	per thousand	\$60.00	} Delivered New York and Vicinity
13 to 18 in. . . . .	" "	65.00	
19 to 24 in. . . . .	" "	70.00	
25 to 36 in. . . . .	" "	75.00	
over 36 in. . . . .	" "	80.00	
*Wedges . . . . .	5c each		

\* Wedges are indestructible and can be reused indefinitely.

When ordering, give overall measurements of sheathing, studs and Whalers.



# "DUPLEX" HANGERS, POST CAPS, and Fittings for any Timber Framing Condition

## Products

"DUPLEX" JOIST, WALL, CONCRETE BLOCK and I-BEAM HANGER; "DUPLEX" POST CAPS, POST BASES, WALL PLATES and WALL BOXES, for warehouses, factories, heavy mill construction and all other wood constructed buildings.  
Also Incinerators.

## Specifications

"Duplex" hangers and post caps are designed with a large factor of safety to carry the timbers for which they are intended. If architects and engineers will, when using hangers and post caps, specify "Duplex," the proper hangers and post caps for the timbers will be furnished.



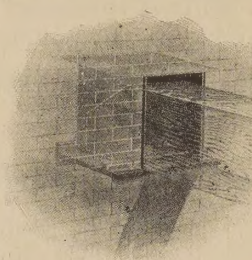
"Duplex" Joist Hanger

### "Duplex" Hangers

**Single Joist Hangers**—Are made of malleable iron and every hanger is thoroughly tested.

The best and most economical hangers for timber framing.

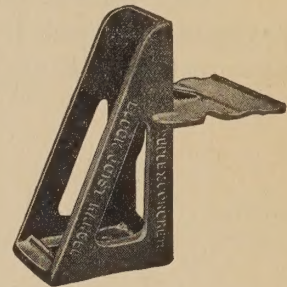
"Duplex" Joist Hangers reduce the shrinkage of joists to a minimum.



"Duplex" Wall Joist Box

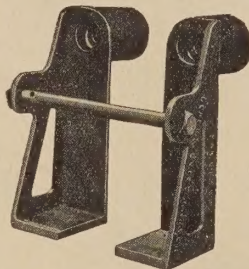
### "Duplex" Concrete

**Block Joist Hanger**—The best hanger for concrete block construction. It is made with a larger bearing plate than our ordinary wall hangers so as to distribute the load over a greater area of the concrete block. Very practical where it becomes necessary to frame joists into old brick walls or party walls. Avoids the cutting of a large hole.

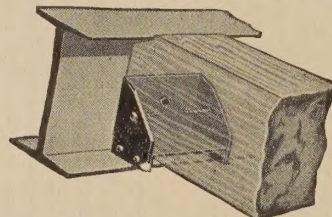


"Duplex" Concrete Block Wall Joist Hanger

**R & L Joist Hangers**—The best hangers for the heaviest type of mill construction. By using this type of hanger, the entire building is tied together laterally. No other method of construction does this. Made in two parts and can be adjusted to fit the various timbers for which they are intended.



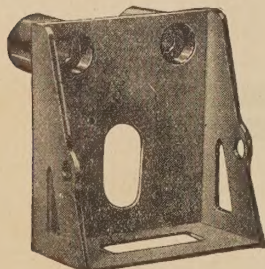
R & L Joist Hanger



"Duplex" I-beam Shelf Hanger

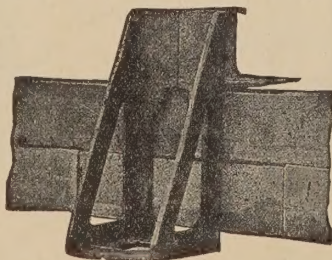
### I-beam Box and I-beam Shelf Hangers—

Are noted for being one of the most economical devices for framing wood joists to I-beams. All of the load is carried on the lower flange of the I-beam, this being the only correct method.



For Very Heavy Mill Construction

**Heavy Duty R & L Joist Hangers**—This hanger combines all the features of the R & L hangers, but is made in one piece, instead of pairs.



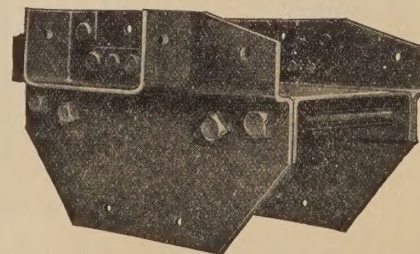
"Duplex" Wall Joist Hanger

### "Duplex" Steel Post Caps

The "Duplex" Post Caps are made of mild, open hearth steel and consist of three pieces; a bearing bracket and two side plates bolted together with four heavy bolts. All engineers who have investigated and used this cap are unanimous in declaring it to be the best design for rigid construction. Tests have fully proven the great strength of this design and that it

is not possible to break the cap when even more than six times the ultimate safe load of the timber is applied.

These caps are furnished for 1-way, 2-way, 3-way and 4-way construction and may be had for timbers larger than the post.



Four-way Construction

**Wall Hangers**—Embody every established requirement for good construction. Superior in design. Do not break the bond in masonry walls. Self-releasing in case of fire.



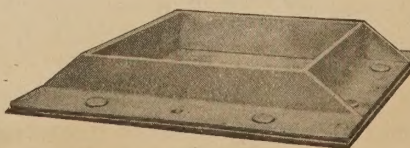
"Duplex" Wall Hanger, Extra Heavy

"Underwriters' Type." For heavy mill construction

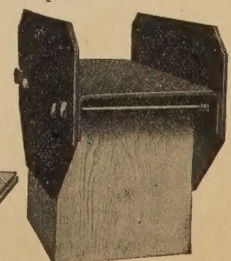
**Steel Wall Hangers**—Have no equal in carrying timbers clear of the wall. Distribute the load perfectly over the bearing surface of the masonry. Furnished for standard and extra heavy construction.

### "Duplex" Steel Post Bases

Are made of steel plates and angles to fit the post. More economical than cast iron plates.



"Duplex" Steel Post Base



Girder Same Size as Post Below



# IDEAL HANGERS, POST CAPS, and Fittings for any Timber Framing Condition

## Products

IDEAL JOIST HANGERS (Wall Hangers, Wall Boxes and Metal Lumber Hangers); POST CAPS; POST BASES.

Also Barn Framing Fittings.

## Ideal Joist Hangers

**Introduction**—Ideal hangers are made of the best grade open hearth steel bars and are formed so the hanger fits flat against the timber, increasing the carrying capacity of the hanger. This hanger fitting close on all sides does not interfere with furring and permits the use of spikes or lag screws to fasten the hanger to the girder.

No costly framing. Easily applied and neat in appearance. The same section of bar is used throughout, giving the strongest construction at an economical cost.

### Single Hanger, Style "A"

—These hangers are standard construction and are carried in stock for every size timber.

### Double Hanger, Style "B"

—For use where joists frame opposite each other on wood or I-beam girders. The double hanger consists of two single hangers, each riveted to strap connections to hang over the wood or I-beam girder. Unquestionably, the strongest construction.

**Directions for Ordering**—Give size of joists and also width of girder over which hanger must span, or, in case of an I-beam, exact width of flange, or if more convenient, height of I-beam and weight per foot, so that flange width can be obtained.

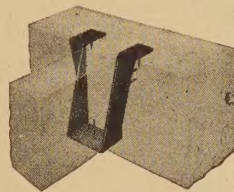
### Single Hanger, Style "C"

—Used where a single joist frames against an I-beam channel or wood girder, the arms of the joist hanger running over the top.

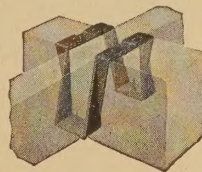
**Directions for Ordering**—Give size of joist and dimensions over which hanger arms must go, namely: width of timber header, or, in case of I-beams or channels, width of flange or height and weight per foot so flange width can be obtained.

### Metal Lumber Hangers

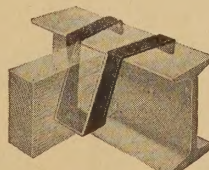
—Are the most economical and



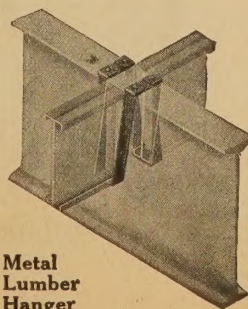
Ideal Single Hanger,  
Style "A"



Ideal Double Hanger,  
Style "B"



Ideal Single Hanger,  
Style "C"



Metal  
Lumber  
Hanger

satisfactory method of framing steel I-joists and save from 60 to 75% of the cost of shelf angles. Being a shop-fabricated product of known strength and integrity, the use of Ideal metal lumber hangers follows the simplest possible design. Easily placed, safe, strong and secure. Send plans for estimate.

## Ideal Steel Post Caps

**Cap No. 2**—Combines all the features necessary to strength in construction. Easily installed, no framing being necessary. The angles on the bottom of the cap are bent to form a socket into which the post fits, preventing any twisting of the cap. Channel is of open hearth plate steel riveted to the socket. Brackets are riveted to channel to carry beams framing on the side. Girders and beams will be flush unless otherwise noted.

### Directions for Ordering

In ordering 3 or 4-way construction, give the following information: size post below; size post above; width and height of main girder; width and height of beams on side of cap.

**Cap No. 3**—Forms a complete bearing channel for the girder. Heavy angles underneath give necessary strength for lighter type of construction. Holes are punched in the cap for tying the girders and post to the cap. This cap permits the use of wider or smaller girders than the post. Furnished in any size from warehouse stock.

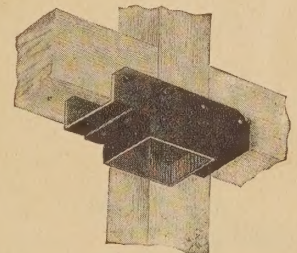
**Directions for Ordering**—Always give size of post on which cap is placed, size of post which rests on top of cap and size of girder.

## Ideal Post Bases

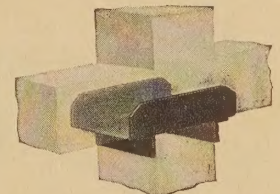
Made of heavy steel plates with angles riveted on to form a socket for the post, providing necessary spread for standard construction.

## Service

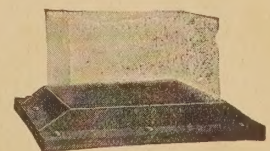
Ideal post caps, Ideal hangers and other Ideal products are made of the best material obtainable by competent workmen on modern machines. Prompt shipments are made from stock. Estimates and quotations cheerfully furnished and designs submitted by engineers who are specialists in timber construction.



Ideal Steel Post Cap No. 2



Ideal Steel Post Cap No. 3



Ideal Post Base



# ANCHORS and BRIDLE IRONS



Side or T-Anchor



Wall or Hook Anchor



Strap Anchor

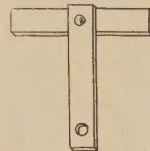


Wall Plate Anchor

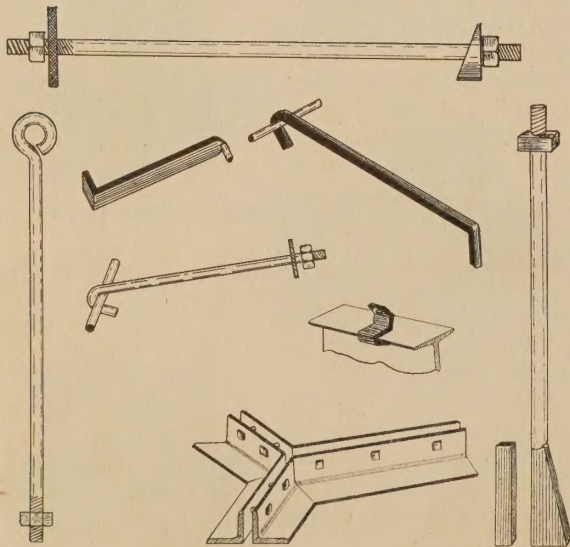
All popular sizes of Anchors are carried in stock.  
Special sizes can be furnished on short notice



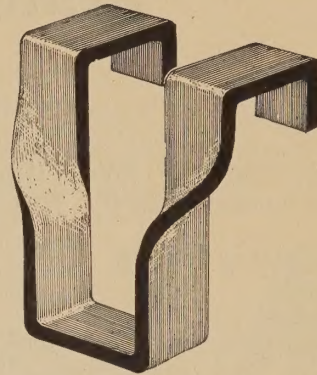
Ashlar Anchor



Ceiling or Toggle Anchor



We specialize in Terra-Cotta and Stone Anchors,  
which can be made to detail on short notice.

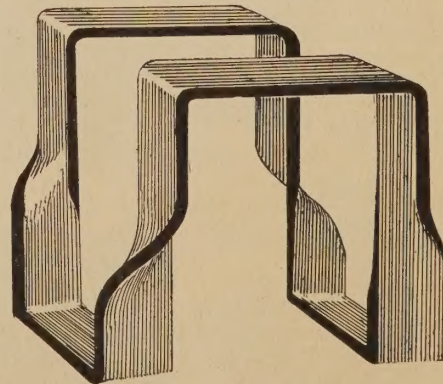


SINGLE BRIDLE IRON

Furnished for any size timber.  
Standard sizes in stock.

When ordering **BRIDLE IRONS** give  
dimensions in this order:

- 1st—width of supporting timber;
- 2nd—depth of beam to be carried;
- 3rd—width of beam to be carried.

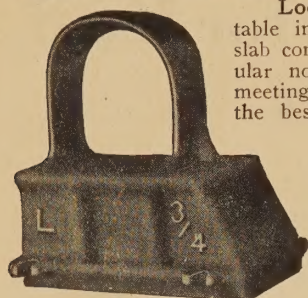


DOUBLE BRIDLE IRON



# CONCRETE INSERTS

## Adjustable or Slotted Inserts



Loop Type

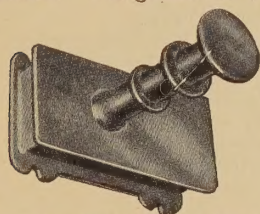
**Loop Type**—The loop type adjustable insert, intended for use in thin slab construction, is proving more popular now than the stem type and is meeting every requirement. It is one of the best designed and most practical inserts on the market. This insert is so formed that the concrete flows freely around it. There are no sharp corners and in the finished work less surface is exposed in the ceiling after the forms are removed than with any other type which is a very desirable feature. The size of the chamber in both the loop type and stem

type permits of the use of either the nut or the head of the bolt.

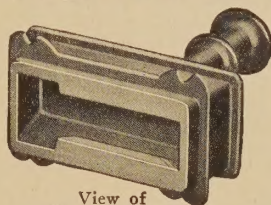
**Prong Type**—The loop type insert is also made with prongs projecting approximately  $\frac{3}{4}$  in. on the front and also on the back of the loop for the purpose of securing additional anchorage in the concrete. This type was designed principally for supporting shelf angles and is proving popular and satisfactory in every detail. It is also exceedingly valuable in ceiling work in those places where unusual strength is required.

Prices and discounts on the prong type adjustable inserts will be quoted on application.

**Stem Type**—Made with a corrugated stem that extends up into the compression area of the concrete, the correct place to hang the load. The tapering ribbed base is so shaped that it gives the greatest possible supporting strength to the concrete member. The greater the load on the Collings insert the tighter the concrete grips and holds.



Note Corrugated Stem and Tapering Base with Flange at Top



View of Chamber for Bolt

### Collings Insert

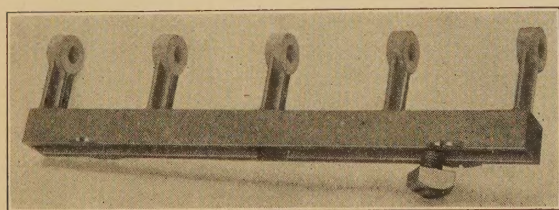
(Patented March 26, 1918)

#### ADJUSTABLE INSERTS—SIZES, WEIGHTS AND LIST PRICES

	Size bolt	Height	Weight per 100	List price
Stem type	$\frac{1}{2}$ in.	$3\frac{3}{4}$ in.	76 lbs.	16c each
	$\frac{3}{8}$ in.	$3\frac{3}{4}$ in.	90 lbs.	19c each
	$\frac{3}{4}$ in.	4 in.	115 lbs.	23c each
Loop type	$\frac{1}{2}$ in.	$2\frac{1}{2}$ in.	45 lbs.	13c each
	$\frac{3}{8}$ in.	$2\frac{1}{2}$ in.	63 lbs.	16c each
	$\frac{3}{4}$ in.	$3\frac{1}{4}$ in.	81 lbs.	20c each

Discounts will be quoted on application.

## "LONG TYPE" MALLEABLE IRON ADJUSTABLE INSERT



This insert is 21" long and gives a maximum of adjustment. Placed end to end they provide a convenient and economical method of hanging shafting or machinery in any position.

Malleable Iron means greater strength and rust resisting qualities. Made for  $\frac{3}{4}$ " bolt.  $\frac{5}{8}$ " bolt can be used with washer.

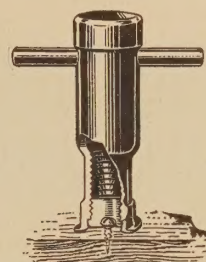
## Kohler Threaded Concrete Inserts

**Advantages**—The Kohler Threaded Concrete Inserts are now supplied either with the screw point or with nailing lugs at the base for use in place of the screw points, as illustrated.



Pressed Steel Insert

Construction of  $\frac{3}{8}$  and  $\frac{1}{2}$ -in. sizes



Steel Insert in Form, with Screw Point in Place

Construction of  $\frac{3}{8}$ -in. size



Insert without Screw

Construction of  $\frac{3}{8}$ -in. size

This screw point makes it possible to set the insert accurately and quickly in the form. A blow with a hammer and a couple of turns with the hand sets this screw down so that the insert is held secure in a vertical position ready for the concrete to be poured. After the work is finished the forms are easily pulled away from the screws, which are then quickly removed, leaving the insert free for the threaded bolt.



Cast Insert with Screw Point



Exact Size of Screw Point Used in  $\frac{3}{8}$ -in. Insert (Patented Feb. 27, 1912)



Cast Insert with Nailing Lugs

The cast threaded inserts with the nailing lugs at the base are preferred in many places instead of the screw points. They are quickly set and the cost is less.

#### THREADED INSERTS—SIZES, WEIGHTS, AND LIST PRICE

Size bolt	Height	Weight per 100	List price
Pressed Steel Threaded Inserts			
$\frac{3}{8}$ in.	$2\frac{1}{2}$ in.	8 lbs.	10c each
$\frac{1}{2}$ in.	3 in.	$13\frac{1}{2}$ lbs.	13c each
$\frac{3}{4}$ in.	$3\frac{1}{4}$ in.	42 lbs.	17c each
Cast Threaded Inserts with Screw Points			
$\frac{3}{8}$ in.	$2\frac{3}{4}$ in.	23 lbs.	13c each
$\frac{1}{2}$ in.	$3\frac{1}{4}$ in.	45 lbs.	15c each
$\frac{3}{4}$ in.	$3\frac{1}{2}$ in.	75 lbs.	19c each
$\frac{1}{2}$ in.	$3\frac{3}{4}$ in.	85 lbs.	22c each
$\frac{3}{4}$ in.	$3\frac{3}{4}$ in.	110 lbs.	28c each
Cast Threaded Inserts with Nailing Lugs without Screw Points			
$\frac{1}{2}$ in.	$3\frac{1}{4}$ in.	45 lbs.	13c each
$\frac{3}{8}$ in.	$3\frac{1}{4}$ in.	66 lbs.	17c each
$\frac{3}{4}$ in.	$3\frac{3}{4}$ in.	72 lbs.	20c each

List prices are subject to discount which will be quoted on application.

**Economy**—These inserts, regularly spaced in the ceilings, floors or walls of reinforced concrete buildings mean a saving of time and heavy expense in attaching or rearranging shafting, piping or other interior equipment. A necessity in concrete construction.



# WINDSHIELD SCUPPERS

## "Draft Proof"

### A Necessary Protection that Pays for Itself in Lower Insurance Rates

#### Purpose of Windshield Scuppers

To provide a quick escape for water in case of fire, defective or overheated sprinklers, bursting pipes, etc., thereby reducing damage to a minimum.

It is a well-known fact that approximately 75% of so-called fire losses are actually caused by water, and the progressive architect or engineer can not afford to omit provision for the emergency.

Aside from actual water damage, five lines of fire hose, discharging 300 gal. per minute, would strain the structure to the extent of 12,000 lb. for each minute, or 30 tons every 5 minutes the fire ensued.

Every mercantile building, such as warehouses, factories, lofts and stores, should be equipped with Windshield Scuppers.

#### Reduced Insurance Rates

Insurance companies, recognizing their value, allow a reduction in rates applying to both building and contents when Windshield Scuppers are installed in accordance with recommendations. This saving usually pays their entire cost in a few years. Buildings so equipped will also command a higher rental and reduce vacancies on account of the insurance saving afforded tenants.

#### Underwriters' and Factory Mutuals' Approval

Windshield Scuppers have been tested and approved by the Underwriters' Laboratories, Inc. at Chicago, and are listed as Standard by the National Board of Fire Underwriters. This assures acceptance by all insurance exchanges throughout the country and the maximum reduction in rates.

The Associated Factory Mutual Fire Insurance Companies have also inspected and approved this device.

#### Value of the Improved Windshield

Being an emergency device, it is essential that it be at all times prepared for instant duty. A scupper which permits drafts to enter is not likely to be ready when called upon, as

it has been found that employees, putting their own comfort ahead of any thought of the consequence, will stuff the scupper, thereby rendering it useless.

The windshield positively prevents drafts. This means a distinct saving in heat and fuel.

The Standard Type Windshield Scupper, as recently improved, is provided with a seat which insures a tight fit when windshield is closed and gives a positive clearance between the sides of the casing. The windshield is hung on a frame at the floor level, where it can be readily inspected and by the removal of two nuts can be replaced. This is an exclusive feature of the Standard Type. (See illustration.)

#### Underwriters' Approved Grate

The approved projecting grate prevents close stock piling and is so designed as to avoid possibility of tripping or injury to occupants. Its construction is such that a packing case, dropped from a hand truck, would be deflected.

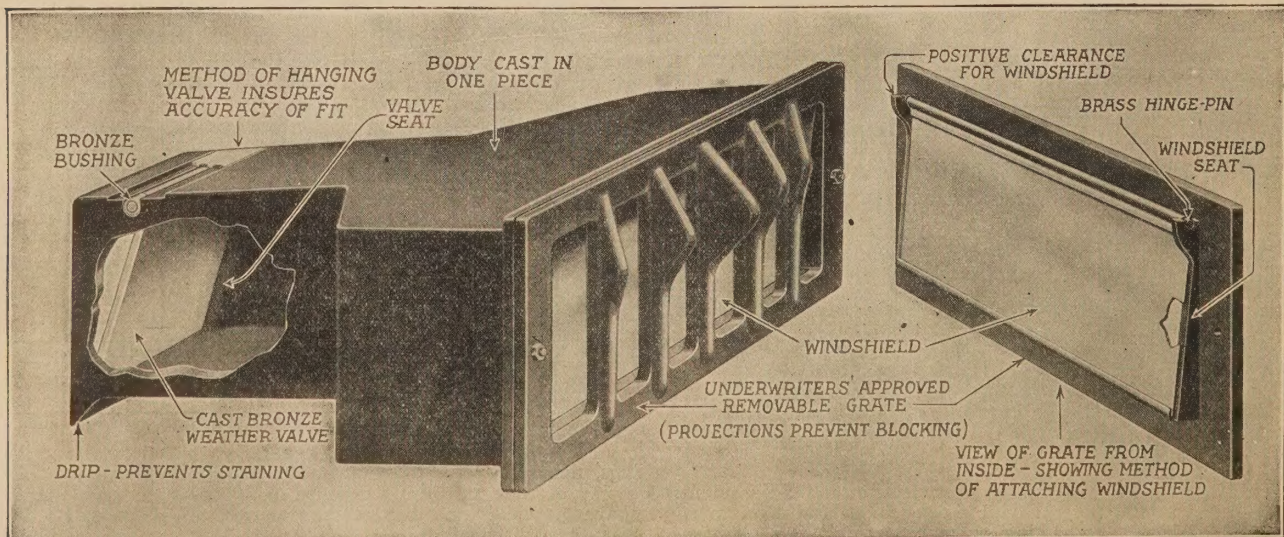
These improvements eliminate the disadvantages of the old style stock fender, which, while readily subject to breakage, can not be replaced as the attaching bolts are embedded in masonry.

#### Distinct Advantage of One-piece Scupper

The body of every Windshield Scupper is a solid one-piece casting. This is far superior to an assembled scupper, with the top or cover cast separately, as it is impractical to provide a tight fit, and this not infrequently permits a leakage of concrete into the scupper which clogs the valves, rendering them inoperative. The one-piece scupper assures proper setting in a complete unit, requiring no re-assembly of parts on the job by inexperienced mechanics.

#### Other Structural Advantages

The exterior bronze weather valve, being hung inside the housing, is afforded the maximum of protection against the elements. The method of hanging assures accuracy of fit, making it as airtight as is possible, and the bronze bushings



"Standard Type" Windshield Scupper with Underwriters' Grate, Showing How Windshield Can Be Renewed  
(Patented and other patents pending)

Continued on next page



guarantee ease of operation. It can not be blown open, as is possible with the old type door which rests on the outer end.

The drip under the outlet gives positive assurance against water flowing back under the scupper and staining the building.

Each valve is provided with a seat. It is obvious that a valve without a seat can not be windproof and still operate freely.

Only the best grade, high-silicon iron is used, producing a soft tough casting and, being  $\frac{3}{8}$  in. thick, ample strength is provided to withstand undue strain or blow imposed by careless handling.

## Appearance

Windshield Scuppers, having no unsightly hood at the exterior, harmonize with the architecture of the building. When located symmetrically, they provide a relief and aid the architectural scheme.

## Location and Quantity Required

Windshield Scuppers are usually placed in each bay, and should be set in the wall so bottom of scupper will be 1 in. below the finished floor line. By keeping the face of the scupper parallel with the wall, proper incline toward outside will be maintained.

One Windshield Scupper should be provided for each 500 sq. ft. of floor space if the building is sprinklered, otherwise one for each 1000 sq. ft.

## Sizes and Prices

Windshield Scuppers are made for walls of any thickness and can be furnished galvanized, if desired. Prices will be quoted on request by local sales representatives, or direct.

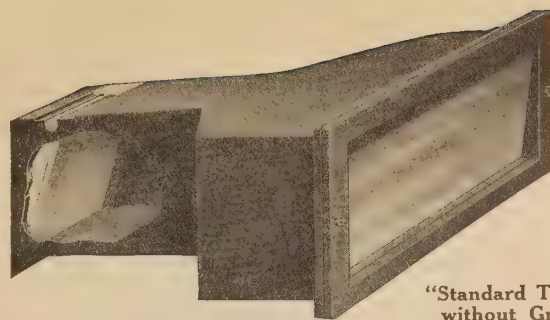
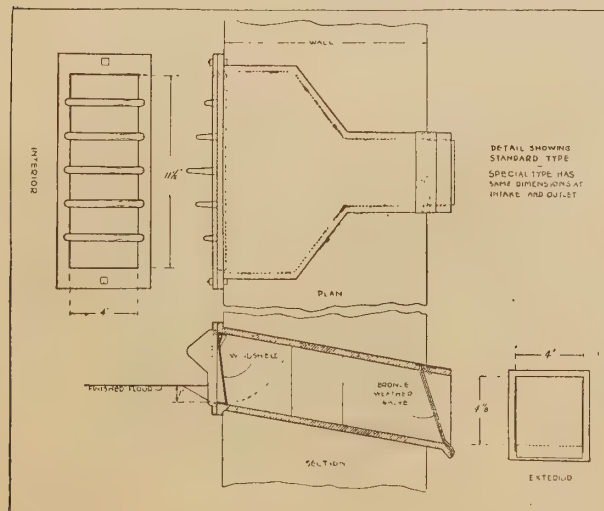
## Specification for Standard Type

Provide and install, where shown in plans Standard Type (SG, S, KG or K) Windshield Scupper, of proper size for wall thickness shown. Body to be cast in one piece,  $\frac{3}{8}$  in. thick, with bronze exterior weather valve, hung with bronze hinge pins and bronze bushings. To have improved, detachable (*polished brass or galvanized iron*) windshield hung on brass hinge pin, attached to grate or frame at entrance so that it can be replaced (*and with Underwriters' Approved Projecting Grate to prevent blocking.*)

(Italics denote optional features, which should conform to type selected. See Guide below.)

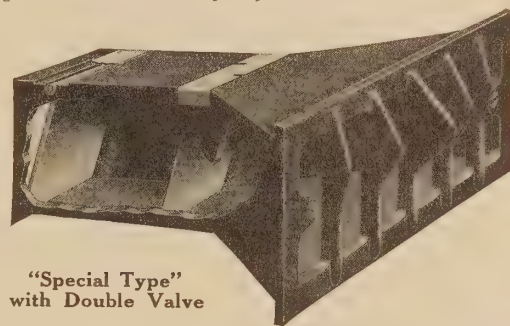
### SPECIFICATION DATA

Symbol	Description	
Standard Type, Heavy $\frac{3}{8}$ in.		
"SG"	With grate	Polished, lacquered brass windshield
"S"	Without grate	
"KG"	With grate	Galvanized windshield
"K"	Without grate	
Special Type $\frac{1}{4}$ in.		
"E"	With grate	Double valve
"M"	With grate	Single valve



"Standard Type"  
without Grate

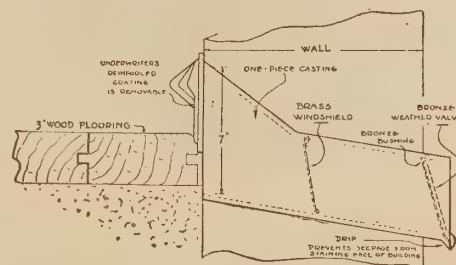
In department stores, and similar high class buildings, architects have shown a preference for the Standard type without grate, as the polished and lacquered brass windshield gives the base a finished, neat appearance, or the galvanized windshield may be painted to match the base



"Special Type"  
with Double Valve

While lighter than the Standard, compares favorably in weight with any other manufacture and is priced to meet competition. The following advantages place it in a preferred position:

Cast and cored in one piece; exterior drip prevents staining; every valve provided with seat; Underwriters' approved projecting grate furnished at no additional cost, flat grate optional; exterior valve cast bronze, inner valve brass, both hung with bronze hinge pins and bronze bushings.



Type "W" for Wood Floor on Concrete

Note that removability of grate is not obstructed by flooring. Can be furnished with double or single valve

## Installations

Space will not permit us to list the thousands of installations, so we name but a few of the more prominent users. Write for list of those in your locality.

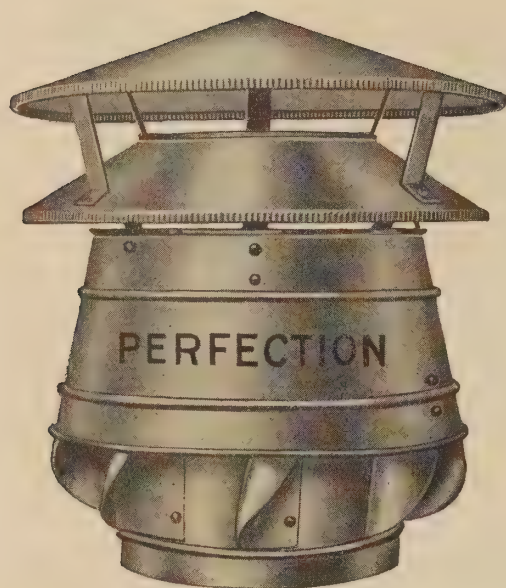
American Can Co., Cincinnati, Ohio; San Francisco, Calif.;  
Ogden City, Utah; Seattle, Wash.; Chicago, Ill.  
J. C. Penney Co., New York, N. Y.  
Standard Oil Co., Long Island City, N. Y.  
B. & O. R. R. Co. Warehouses, Philadelphia and Pittsburgh, Pa.  
Fisher Body Corp., Cleveland, Ohio; Detroit, Mich.  
Real Silk Hosiery Co., Indianapolis, Ind.  
Underwriters Building, New York, N. Y.  
Cooper Dry Goods Co., Los Angeles, Calif.  
Westinghouse Electric & Mfg. Co., Cincinnati, Ohio; Pittsburgh, Pa.  
International Shoe Co., St. Louis, Mo.  
General Electric Co., Los Angeles, Calif.; Newark, N. J.  
Studebaker Buildings, South Bend, Ind.; Detroit, Mich.  
Victor Talking Machine Co., Camden, N. J.  
Packard Motor Co., Chicago, Ill.  
Otis Elevator Co., Yonkers, N. Y.; Harrison, N. J.  
Liggett & Myers Tobacco Co., Richmond, Va.  
Sears, Roebuck & Co., Kansas City, Mo.  
Canadian Rail & Harbor Terminal, Toronto, Ont.  
Eli Lilly Co., New Orleans, La.  
Southern Bell Telephone & Telegraph Co., Montgomery, Ala.  
R. H. Macy & Co., New York, N. Y.  
American Optical Co., Southbridge, Mass.



# PERFECTION VENTILATOR

*Like the Whirlwind, it Twists Atmosphere Into Its Form —*

*The most scientific roof ventilator made.*



**Y**EARS of experimentation and testing by skilled ventilating engineers, have resulted in the manufacture of this most efficient ventilator.

It contains no moving parts, nothing to stick, freeze or corrode. There is no rattle or wear—no oiling or attention necessary. It does not require any mechanical power, nor does it depend upon the direction or velocity of the wind for its continuous action. It works just as efficiently in even the slightest breeze—when ventilation is needed most.

Under every conceivable wind condition it continues its powerful pulling force that assures positive and constant ventilation.

The Perfection Ventilator is rigidly constructed, and is absolutely weatherproof. One of its unique features is that while it utilizes stack action, it is not at all dependent upon it for its efficiency. When stack action does occur—when the warm air arises—it merely accelerates the ventilator's normal action.

The architecturally perfect design of the Perfection Ventilator adds to the attractiveness of any building upon which it is placed.

## “PENN” VENTILATOR

**T**HE Penn Ventilator is the result of many years of specialized experience in the ventilating field.

It successfully meets in every particular the demand for a highly efficient, weatherproof ventilator at a moderate price.

It is heavily and substantially built by expert workmen. It has a free air exhaust and is proof against back draft. It is easy to install and has no upkeep expense. It is artistically designed, and it can be made with a glass top, if desired, thus serving the double purpose of ventilator and skylight. It can also, for the use of hospitals, schools, mills, railroads, and, in fact, any type of building, be readily screened insect and bird proof.

It is a leader among the “mushroom” type of ventilators and has more than 100 per cent free area.





# "CLEVELAND" SASH PULLEYS

## (Formerly "Columbian")

**Material**—Case—cast gray iron.

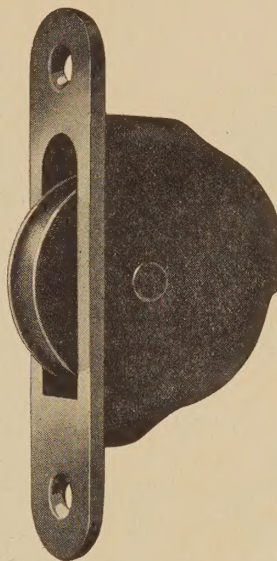
**Wheels**—Machine turned, cast gray iron, cast brass or bronze.

**Grooves**—Combination rounded grooves, suitable for cord or chain, regularly furnished. Double-square grooves for chain only are furnished when so ordered.

**Axles**—Cold rolled steel is standard. Brass or gunmetal when so ordered.

**Bearings**—Plain axle, roller bearing, ball bearing, bronze or steel bushings.

**Faces**—Cast iron, or with wrought bronze metal faces.



### Standard Finishes

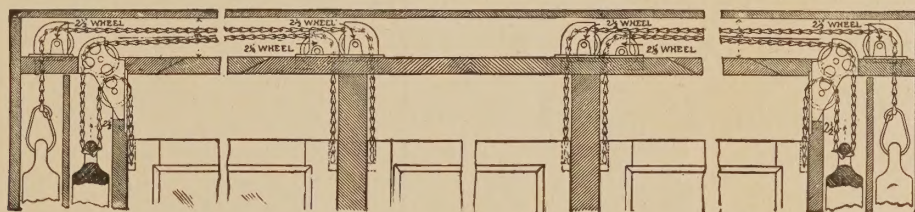
- 0—No finish—plain.
- 02—Polished and lacquered.
- 12—Bright brass.
- 13—Dull brass.
- 1—Bright bronze.

### SIDE PULLEYS

Wrought Brass or Bronze Faces No.	Cast Iron Faces No.	Wheel size, inches	Axle size, inches	Face size, inches
D-106	100	2	$\frac{5}{8}$	$1\frac{1}{8} \times 5$
D-206	200	$2\frac{1}{4}$	$\frac{5}{8}$	$1\frac{1}{8} \times 5$
D-226	220	$2\frac{1}{4}$	$\frac{5}{8}$	$1\frac{1}{8} \times 5\frac{1}{2}$
D-306	300	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{1}{4} \times 5\frac{3}{4}$
D-326	320	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{1}{4} \times 6$
D-406	400	$2\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{4} \times 6$
D-426	420	$3 \times \frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{4} \times 6\frac{1}{2}$

Side Pulley

### FOR TRIPLE WINDOWS

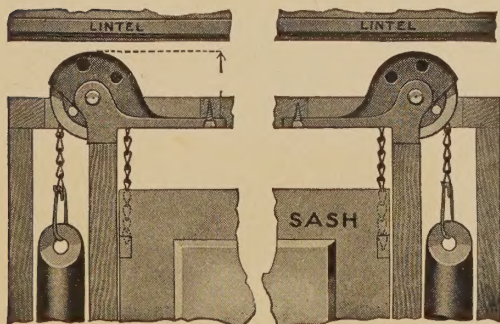


Three Windows and two mullions—Sixteen Pulleys to a set.

### SET COMPRISES

- Set No. 3065 Cast Iron Faces { 4—No. 014—Double Wheel Pulleys { One  $2\frac{1}{2}$  in. Upper Wheel  
One  $2\frac{1}{4}$  in. Lower Wheel,  
8—No. 012—Single  $2\frac{1}{2}$  in. Wheel Pulleys,  
4—No. 010—Single  $2\frac{1}{4}$  in. Wheel Pulleys,  
Set No. 3067 Wrought Bronze Metal Faces Same as above, except with wrought bronze metal face.

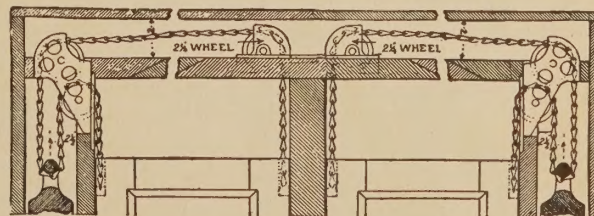
### FOR SINGLE WINDOWS



One Window—Four Pulleys.

Wrought Brass or Bronze Faces No.	Cast Iron Faces No.	Wheel size, inches	Axle inches
4008	4005	2	$\frac{5}{8}$
4018	4015	$2\frac{1}{4}$	$\frac{5}{8}$
4028	4025	$2\frac{1}{2}$	$\frac{5}{8}$

### FOR TWIN WINDOWS



Two Windows and one mullion—Eight Pulleys to a set.

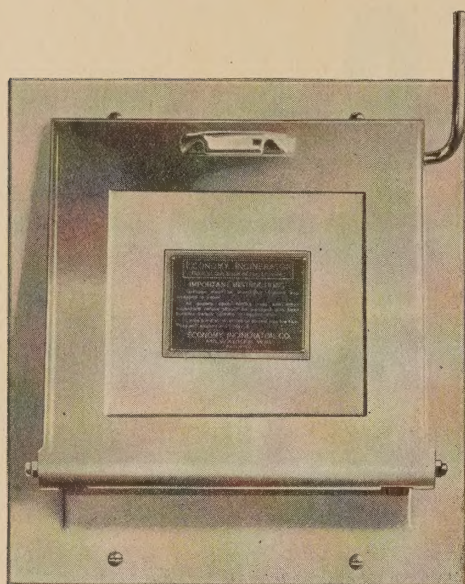
### SET COMPRISES

- Set No. 3050 Cast Iron Face { 4—No. 014—Double Wheel Pulleys { One  $2\frac{1}{2}$  in. Upper Wheel, and  
One  $2\frac{1}{4}$  in. Lower Wheel,  
4—No. 010—Single  $2\frac{1}{4}$  in. Wheels.  
Set No. 3052 Wrought Bronze Metal Face { Same as above except with wrought bronze metal face.

When ordering, state finish, groove and bearing desired.



# ECONOMY INCINERATOR

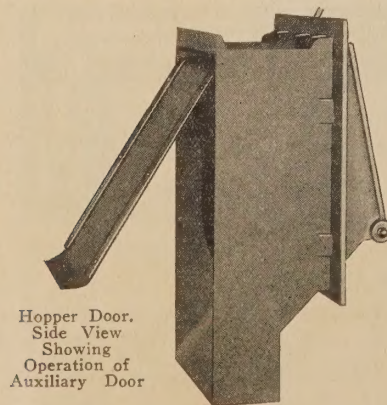


POLISHED ALUMINUM  
RECEIVING HOPPER DOOR

## Safety Receiving Hopper

An exclusive patented feature is the secondary safety door in the Economy receiving hopper. This device closes the opening to the flue while the hopper is in use and is tripped only when the outer door is closed. This eliminates the danger of smoke, soot or flames escaping through the hopper while it is being opened or closed which is always prevalent with the old style single door type. The polished aluminum door cannot get hot as the secondary safety door shields it from the heat.

The hopper door is of polished cast aluminum with a sand blasted panel in the center; an attractive addition to either kitchen or service hall. While it has the appearance of nickel-plating, there is nothing to peel off or rust. No repainting or re-enameling is necessary and an occasional polishing will keep it looking bright and new. Aluminum being light in weight makes it easy-operating and relieves the strain on the hinges giving longer life.



Hopper Door.  
Side View  
Showing  
Operation of  
Auxiliary Door

After depositing refuse, auxiliary door handle is tripped to release the refuse from the hopper into the incinerating chamber.

Standard lay-out sheet, drawn to  $\frac{1}{4}$ " scale will be furnished on request.

We will be glad to make recommendations where special conditions are encountered.

### ECONOMY INCINERATOR

Patented

Built at the Base of the Chimney

The ECONOMY INCINERATOR is an inexpensive, effective and final means of disposing of waste, garbage, paper, cans, bottles and rubbish—without the use of fuel.

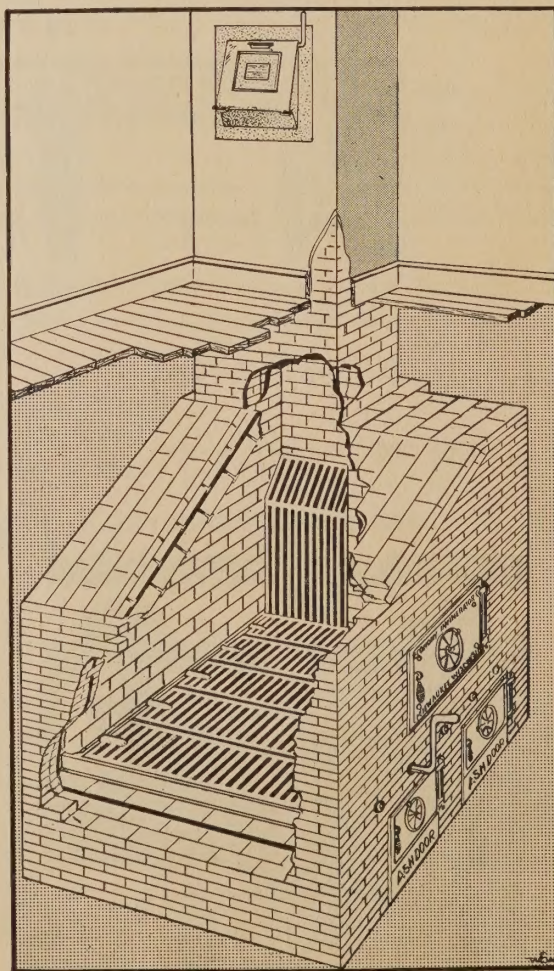
### Easy to Operate

The refuse is dropped through the hopper door and falls to the combustion chamber. Here, an occasional firing burns everything combustible. Non-combustible material, such as tin cans and bottles, are sterilized and removed with the ashes. The waste itself is all the fuel that is necessary—and a match will light it for burning.

### Requires No Attention

The Economy Incinerator is so constructed as to be practically fool-proof. There is nothing to get out of order—nothing to take care of or clean—nothing to replace or renew.

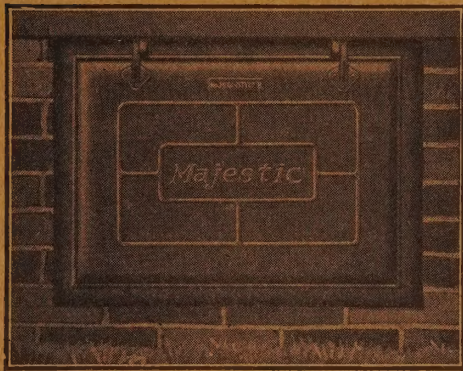
Once the Economy is built into the basement, it will operate efficiently, odorless and safely for a life-time.



SHOWING STANDARD INSTALLATION  
Note location of by-pass, directly under flue



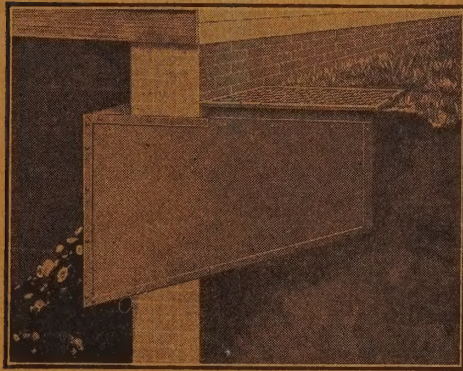
## Majestic Coal Windows



No. M 101 Wall opening 24" wide x 17" high  
No. M 203 " " 33" " x 17" "

Also made with glass panel in door.

## Grade Line Coal Chutes



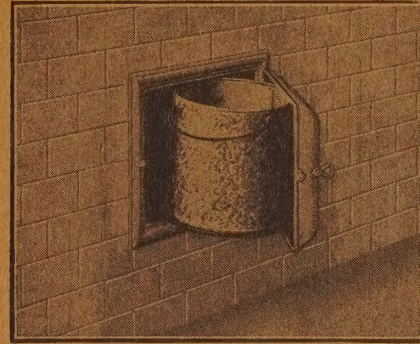
No. M 16 Door opening 24" x 18"  
No. M 18 " " 30" x 24"

## Fireplace Ash Dumps



Fireplace  
Dampers

## Apartment Garbage Receivers



## Underground Garbage Receivers



At right is section through ground showing Majestic Underground Garbage Receiver buried and in use

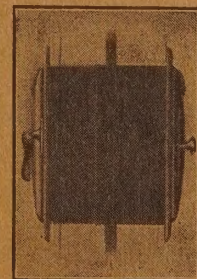


Made in 5, 8, 12, 15 and 20 gallon capacities.

## Package Receivers

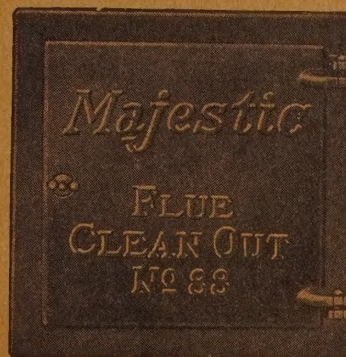


Inside View—Removing Milk



Sectional View

## Flue Clean Outs



Left: Front view door closed

Above: Rear view showing anchor irons extended



